

# Camille Scott

## Permanent Address

By Request  
Davis, CA

## Contact

camille.scott.w@gmail.com  
cswel@ucdavis.edu

(as of May 2022)

EDUCATION	<b>Alma College</b> , Alma, MI <i>B.S., Computer Science</i>	2008-2012
	<b>Michigan State University</b> , East Lansing, MI <i>GED Lab, PhD. student, Computer Science</i>	2012-2015
	<b>University of California Davis</b> , Davis, CA <i>PhD., Computer Science, Lab for Data Intensive Biology</i> <i>Dissertation: Streaming Methods for Assembly Graph Analysis</i>	2015-2022
HONORS AND AWARDS	National Merit Finalist	2008
	Alma College / Distinguished Scholar Award	2008-2012
	Binghamton University / Research Experience for Undergrads	2011
	USDA / MSU / National Needs Fellow	2013-2015
MANUSCRIPTS	Scott, C., & Brown, C. T. (2022). <i>Streaming Construction of the Compact de Bruijn Graph</i> . In prep.	
	Reiter, T., Brooks, P. T., Irber, L., Joslin, S. E., Reid, C. M., Scott, C., ... & Pierce, N. T. (2020). <i>Streamlining Data-Intensive Biology With Workflow Systems</i> . BioRxiv.	
	Neches, R. Y., & Scott, C. (2018). <i>SuchTree: Fast, thread-safe computations with phylogenetic trees</i> . Journal of Open Source Software, 3(26), 678.	
	Scott, C. (2017). <i>shmlast: An improved implementation of Conditional Reciprocal Best Hits with LAST and Python</i> . The Journal of Open Source Software, 2017.	
	Ren, J., Chung-Davidson, Y. W., Yeh, C. Y., Scott, C., Brown, T., & Li, W. (2015). <i>Genome-wide analysis of the ATP-binding cassette (ABC) transporter gene family in sea lamprey and Japanese lamprey</i> . BMC genomics, 16(1), 436.	
	Crusoe, M. R. et. al. (2015). <i>The khmer software package: enabling efficient nucleotide sequence analysis</i> . F1000Research, 4.	
	Aleksic, J., Alexa, A., Attwood, T. K., Hong, N. C., Dahlö, M., Davey, R., ..., & Lahti, L. (2014) <i>The open science peer review oath</i> . F1000Research, 3.	

BLOGS AND  
SOCIAL MEDIA

Blog: [camillescott.org](http://camillescott.org)

Twitter: @camille\_codon

GitHub: [github.com/camillescott](https://github.com/camillescott)

PROFESSIONAL  
ACTIVITIES

Teaching Assistant (TA) at **Alma College**,  
*Intro to Computer Science* 2011-2012

Co-founder, **Alma College Association for Computing Machinery** 2012

Lead Instructor/TA at **Michigan State University**,  
*CSE 101* Fall 2012

Presenter at **Michigan State University**,  
*Summer Research Opportunities (SROP) Workshop* 5/2013

TA for workshop at **Marine Biological Laboratory**,  
*Strategies and Techniques for Analyzing Microbial Population Structures* 8/2013

TA for workshop at **California Institute of Technology**,  
*Workshop on Microbial Bioinformatics* 10/2013

TA for SROP Workshop at **Michigan State University**,  
*Statistics Bootcamp* 05/2014

Participant in Workshop at **The Genome Analysis Center (TGAC)**,  
*AllBio Open Science & Reproducibility Best Practices Workshop* 09/2014

Participant in Workshop at **University of California Davis**,  
*Software Carpentry “Train the Trainers”* 01/2015

Lead Instructor for workshop at **UC Davis**,  
*ANGUS: Next-Gen Sequence Analysis Workshop* Summer 2017

TA at **UC Davis**,  
*ECS132: Probabilistic and Statistical Modeling in Computer Science* Spring 2021

## SOFTWARE

Contributor to **khmer Protocols Project**,  
*Protocols for cloud-based de novo RNA-seq and metagenomic analyses*  
khmer-protocols.readthedocs.org

Contributor to open source **khmer software package**,  
*k-mer counting, graph traversal, and sequence processing*  
github.com/dib-lab/khmer

Member of and contributor to **bioconda channel**,  
*conda channel for bioinformatics packages for Linux and MacOS*  
github.com/bioconda/bioconda-recipes

Author and maintainer of **goetia**,  
*C++ and Python library and command line tools for streaming sequence analysis*  
github.com/camillescott/goetia

Author and maintainer of **debruijn-enhance-o-tron**,  
*pytest fixtures for random de Bruijn graph generation*  
github.com/camillescott/debruijn-enhance-o-tron

Author and maintainer of **dammit**,  
*a tool for easy de novo transcriptome annotation*  
github.com/camillescott/dammit

Author and maintainer of **shmlast**,  
*an implementation of conditional reciprocal best hits with Python and LAST*  
github.com/camillescott/shmnlst

## REFERENCES

*(Contact details available upon request)*